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PATENT & TRADEMARK OFFICE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Group Art Unit: 2122

Kenneth J. Hines

Application No. 09/885,456

Filed: June 19, 2001

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Technology Center 2100

For: **SYSTEM AND METHOD FOR DEBUGGING DISTRIBUTED SOFTWARE ENVIRONMENTS**

Date: October 8, 2001

INFORMATION DISCLOSURE STATEMENT

TO THE COMMISSIONER FOR PATENTS:

Pursuant to his duty of disclosure, applicant encloses a copy of the documents listed on the accompanying Form PTO-1449.

1. This information disclosure statement is being submitted:

   a. [X] Within three months of the filing date of the above-identified application or within three months of the date of entry of the national stage, or before the mailing date of the first Office action on the merits, whichever event occurs last. (No statement under 37 CFR 1.97(e) is required.)

   b. [ ] After the period set forth in paragraph 1a, but before the mailing date of either a final action or a notice of allowance. (Check box i. or ii.)

      i. [ ] A $240.00 information disclosure statement submission fee set forth in 37 CFR 1.17(p) is enclosed.

      ii. [ ] A statement specified by 37 CFR 1.97(e) is set forth below.

c. [ ] After the mailing date of a final action or notice of allowance and on or before payment of an issue fee. A statement specified by 37 CFR 1.97(e) is set forth below. A petition requesting consideration of the information disclosure statement and the $130.00 petition fee set forth in 37 CFR 1.17(i) are enclosed..

2. [ ] The attorney or agent signing below hereby states that:

[ ] each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

[ ] no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement.

3. [ ] Applicant(s) set forth below concise explanations of the relevance of each document not in the English language and/or selected document(s) in the English language.

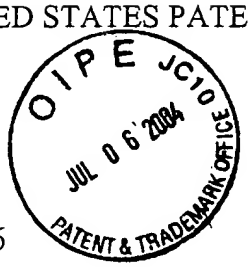
Respectfully submitted,

Kenneth J. Hines

By _____
Steven J. Munson
Registration No. 47,812

STOEL RIVES LLP
900 SW Fifth Avenue, Suite 2600
Portland, Oregon 97204-1268
Telephone: (503) 224-3380
Facsimile: (503) 220-2480
Attorney Docket No. 10488/12:1 USA

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In re application of

Kenneth J. Hines

Application No. 09/885,456

Filed: June 19, 2001

For: **SYSTEM AND METHOD FOR DEBUGGING DISTRIBUTED SOFTWARE ENVIRONMENTS**

Group Art Unit: 2122

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO:
COMMISSIONER FOR PATENTS
WASHINGTON, DC 20231
ON:
January 8, 2003
Date
Signature
Connie English
Typed Name

Date: January 8, 2003

Examiner:

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

TO THE COMMISSIONER FOR PATENTS:

1. Pursuant to his duty of disclosure, applicant presents for the Examiner's consideration the documents listed on the accompanying Form PTO-1449.

[✓] Copies of the documents are enclosed.

[ ] Copies (a copy) of document(s) _____ are (is) not enclosed because (1) they are already of record in U.S. Pat. Application No. _____, filed _____, on which this application relies for an earlier filing date under 35 U.S.C. § 120, and (2) any information disclosure statement filed in the prosecution of U.S. Pat. Application No. _____, complies with 37 C.F.R. §§ 1.98(a) and (c). (37 C.F.R. § 1.98(d).)

2. [ ] Applicant(s) draw(s) the Examiner's attention to the enclosed copy of copending U.S. Pat. Application No. _____, filed _____, for _____, which is cited in this application.

3. This information disclosure statement is being submitted:

a. [✓] Within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office action on the merits; or before the mailing of a first Office action after the filing of a request for continued examination under 37 CFR 1.114. (No statement under 37 CFR 1.97(e) is required.)

b. [ ] After the period set forth in paragraph 1a, but before the mailing date of either a final action, a notice of allowance, or an action that otherwise closes prosecution in the application. (Check box i. or ii.)

i. [ ] A $180.00 information disclosure statement submission fee set forth in 37 CFR 1.17(p) is enclosed.

ii. [ ] A statement specified by 37 CFR 1.97(e) is set forth below.

c. [ ] After the mailing date of a final action or notice of allowance and on or before payment of an issue fee. A statement specified by 37 CFR 1.97(e) is set forth below. Enclosed is a $180.00 information disclosure statement processing fee set forth in 37 CFR 1.17(p).

4. [ ] The attorney or agent signing below hereby states that:

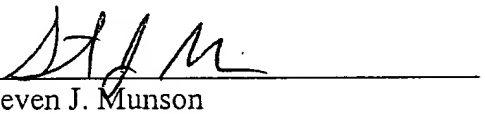
[ ] each item of information contained in the information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement; or

[ ] no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement.

5. [ ] Applicants set forth below concise explanations of the relevance of each document not in the English language and/or selected documents in the English language.

Respectfully submitted,

Kenneth J. Hines

By 

Steven J. Munson
Registration No. 47,812

STOEL RIVES LLP
900 SW Fifth Avenue, Suite 2600
Portland, Oregon 97204-1268
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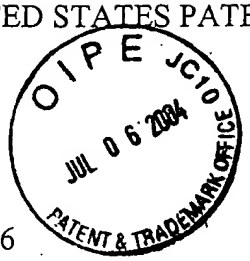
Attorney Docket No. 10488/12:1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In re application of

Kenneth J. Hines

Application No. 09/885,456

Filed: June 19, 2001

For: **SYSTEM AND METHOD FOR DEBUGGING DISTRIBUTED SOFTWARE ENVIRONMENTS**

Date: January 8, 2003

Group Art Unit: 2122

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COMMISSIONER FOR PATENTS
WASHINGTON, DC 20231

ON: January 8, 2003
Date

Signature

Connie English
Typed Name

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TRANSMITTAL LETTER

TO THE COMMISSIONER FOR PATENTS:

Enclosed for filing in the above-referenced application are the following:

- [✓] Supplemental Information Disclosure Statement
- [✓] Form PTO-1499, together with copies of cited references
- [✓] Return receipt postcard

The Commissioner is hereby authorized to charge any additional fees which may be required in connection with filing of these papers, or credit overpayment, to Account No. 19-4455. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Kenneth J. Hines

By _____
Steven J. Munson
Registration No. 47,812

STOEL RIVES LLP
900 SW Fifth Avenue, Suite 2600
Portland, Oregon 97204-1268
Telephone: (503) 224-3380
Facsimile: (503) 220-2480
Attorney Docket No. 10488/12:1

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The stamp of the PTO hereon acknowledges receipt of the following documents in re application of Kenneth J. Hines for SYSTEM AND METHOD FOR DEBUGGING DISTRIBUTED SOFTWARE ENVIRONMENTS (Application No. 09/885,456--filed June 19, 2001):

[✓] Transmittal Letter in duplicate
[✓] Supplemental Information Disclosure Statement
[✓] Form PTO-1449, together with copies of cited references

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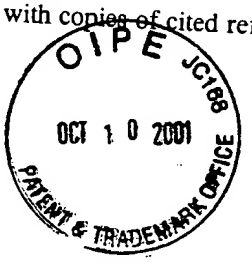
JAN 13 2003
PATENT & TRADEMARK OFFICE

Attorney Docket No. 10488/12:1
Date: January 8, 2003

The stamp of the PTO hereon acknowledges receipt
of the following documents in re U.S. patent application
of **Kenneth J. Hines**, U.S. Patent Application No. 09/885,456,
filed June 19, 2001, for **SYSTEM AND METHOD FOR DEBUGGING DISTRIBUTED SOFTWARE ENVIRONMENTS:**

Transmittal letter (in duplicate)
Information Disclosure Statement
Form PTO-1449, together with copies of cited references

Mailed: October 8, 2001
Docket No. 10488/12:1 US
SJM:cem
Pd2-4329688



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of **Kenneth J. Hines**, U.S. Patent Application No. 09/885,456,
filed June 19, 2001, for **SYSTEM AND METHOD FOR DEBUGGING DISTRIBUTED SOFTWARE ENVIRONMENTS:**

Transmittal letter (in duplicate)
Information Disclosure Statement
Form PTO-1449, together with copies of cited references

Mailed: October 8, 2001
Docket No. 10488/12:1 US
SJM:cem
Pd2-4329688

OIPE JC10
JUL 06 2004
PATENT & TRADEMARK OFFICE

Application No.: 09/885,456
Filed: June 19, 2001
Inventor: Kenneth J. Hines
Title: **SYSTEM AND METHOD FOR DEBUGGING DISTRIBUTED SOFTWARE ENVIRONMENTS**
Docket No.: 10488/12:1 USA

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CERTIFICATE OF MAILING

Date of Deposit: October 8, 2001

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO: COMMISSIONER FOR PATENTS, WASHINGTON, D.C. 20231.

Signature

Cathy Montee
Typed or printed name of person signing certificate

Attachments:

- [✓] Transmittal letter (in duplicate)
- [✓] Information Disclosure Statement
- [✓] Form PTO-1449, together with copies of cited references
- [✓] Return receipt postcard

OIPE JC10
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PATENT & TRADEMARK OFFICE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Group Art Unit: 2122

Kenneth J. Hines

Application No. 09/885,456

Filed: June 19, 2001

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For: **SYSTEM AND METHOD FOR DEBUGGING DISTRIBUTED SOFTWARE ENVIRONMENTS**

Date: October 8, 2001

TRANSMITTAL LETTER

TO THE COMMISSIONER FOR PATENTS:

Enclosed for filing in the above-referenced application are the following:

- [✓] Information Disclosure Statement
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Kenneth J. Hines

By _____
Steven J. Munson
Registration No. 47,812

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Facsimile: (503) 220-2480
Attorney Docket No. 10488/12:1 USA

FORM PTO-1449 (REV. 7-80)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

OIPE JC10 JUL 06 2004 PATENT & TRADEMARK OFFICE

ATTY. DOCKET NO.	APPLICATION NO.
10488/12:1	09/885,456
APPLICANT: Kenneth J. Hines	
FILING DATE: June 19, 2001	GROUP: 2122

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5 8 1 9 2 7 0	10/06/98	Malone et al.	707	7	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	AB	[Baecker et al., 1997) Baecker, R., DiGiano, C., and Marcus, A. (1997). Software Visualization for Debugging. *CACM,* Vol. 40, No. 4, April 1997, pgs. 44-54.
	AC	[Bates, 1986] Bates, P.C. (1986). *Debugging Programs in a Distributed System Environment.* Ph.D. thesis, University of Massachusetts, Amherst.
	AD	[Bates and Wileden, 1983] Bates, P.C. and Wileden, J.C. (1983). High-level Debugging of Distributed Systems: The Behavioral Abstraction Approach. *The Journal of Systems and Software,* Vol. 3, No. 4, December 1983, pgs. 255-264.
	AE	[Bruegge, 1991] Bruegge, B. (1991). A Portable Platform for Distributed Event Environments. In *ACM/ONR Workshop on Parallel & Distributed Debugging,* pgs. 184-193.
	AF	[Fidge, 1991] Fidge, C.J. (1991). Logical Time in Distributed Computing Systems. *IEEE Computer,* 24(8):28-33.
	AG	[Hines and Borriello, 1998] Hines, K. and Borriello, G. (1998). Debugging Distributed Implementations of Modal Process Systems. *Lecture Notes in Computer Science.* 1474:98-107.
	AH	[Khouzam and Kunz, 1996] Khouzam, M. and Kunz, T. (1996). Single Stepping in Event-Visualization Tools. In *Proceedings of the 1996 CAS Conference,* pages 103-114.
	AI	[Koehnemann and Lindquist, 1993] Koehnemann, H. and Lindquist, T. (1993). Towards Target-Level Testing and Debugging Tools for Embedded Software. In *Conference Proceedings on Tri-ADA '93,* pages 288-298.
	AJ	[Kundu, 1996] Kundu, J. (1996). *Integrating Event- and State-Based Approaches to the Debugging of Parallel Programs.* Ph.D. thesis, University of Massachusetts, Amherst.
	AK	[Kunz, 1994] Kunz, T. (1994). *Abstract Behavior of Distributed Executions with Applications to Visualization.* Ph.D. thesis, Technische Hochschule Darmstadt, Darmstadt, Germany.
	AL	[Mattern, 1989] Mattern, F. (1989). On the Relativistic Structure of Logical Time in Distributed Systems. *Parallel and Distributed Algorithmns.*

EXAMINER | DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 10488/12:1	APPLICATION NO. 09/885,456
	INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	APPLICANT Kenneth J. Hines	
		FILING DATE June 19, 2001	GROUP 2122

PATENT & TRADEMARK OFFICE JUL 06 2004 JC10

		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)
	AM	[Netzer and Xu, 1993] Netzer, R. H. B. and Xu, J. (1993). Adaptive Message Logging for Incremental Program Replay, *IEEE Parallel and Distributed Technology*, pages 32-39.
	AN	[Harter et al., 1985] Harter, Jr., P.K., Heimbigner, D.M., and King, R. (1985). IDD: An Interactive Distributed Debugger. In *Proc. of the 5th International Conference on Distributed Computing Systems*, pages 498-506. IEEE.
	AO	[Russell, 1980] Russell, D. L. (1980). State Restoration in Systems of Communicating Processes. *IEEE Transactions of Software Engineering*, Vol. SE-6, No. 2, pgs. 183-194.
	AP	[Shende et al., 1996] Shende, S., Cuny, J., Hansen, L., Kundu, J., McLaughry, S., and Wolf, O. (1996). Event and State-Based Debugging in TAU: A Prototype. In *Symposium on Parallel and Distributed Tools*, pages 21-30.
	AQ	[Side and Shoja, 1994] Side, R. S. and Shoja, G. C. (1994). A Debugger for Distributed Programs. *Software - Practice and Experience*, Vol. 24(5, pgs. 507-525.
	AR	[Taylor, 1992], Taylor, D.J. (1992). A Prototype Debugger for Hermes. In *Proceedings of the 1992 CAS Conference*, pgs. 313-326.
	AS	[Taylor, 1995] Taylor, D. J. (1995). Event Displays for Debugging and Managing Distributed Systems. In *International Workshop on Network and Systems Management*.
	AT	[Tsai et al., 1990] Tsai, J. J. P., Fang, K. Y., and Chen, H. Y. (1990). A Noninvasive Architecture to Monitor Real-Time Distributed Systems. *IEEE Computer*, 23:11-23.
	AU	[Valot, 1993] Valot, C. (1993). Characterizing the Accuracy of Distributed Timestamps. In *ACM/ONR Workshop on Parallel & Distributed Debugging*, pgs. 43-52.
	AV	[Zernik et al., 1992] Zernik, D., Snir, M., and Malki, D. (1992). Using Visualization Tools to Understand Concurrency. *IEEE Software*, 9(3):87-92.

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(REV. 7-80) PATENT AND TRADEMARK OFFICE

10488/12:1	09/885,456
APPLICANT	
Kenneth J. Hines	
FILING DATE	GROUP
June 19, 2001	2122

INFORMATION DISCLOSURE CITATION
(Uses several sheets if necessary)

OIPE JC10 JUL 06 2004 PATENT & TRADEMARK OFFICE

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5 4 2 8 7 8 2	6/27/95	White	395	650	
	AB	5 6 4 2 4 7 8	6/24/97	Chen, et al.	395	183.21	
	AC	5 7 2 4 5 0 8	3/3/98	Harple, Jr. et al.	395	200.04	
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO
	AL	EP 0 881 568 A2	29.05.1998	Europe	G06F	9/46		
	AM	EP 0 822 484 A2	04.02.1998	Europe	G06F	9/44		
	AN							
	AO							
	AP							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	Ken Hines and Gaetano Borriello, "A Geographically Distributed Framework for Embedded System Design and Validation," *DAC 98, June 15-19, 1998, San Francisco, CA USA*, pp. 140-145.
	AS	Gopalan Suresh Raj, "A Detailed Comparison of CORBA, DCOM, and Java/RMI," *Web Cornucopia*, wysiwyg://402/http://gsraj.tripod.com/misc/compare
	AT	"CORBA Overview," *CORBA v2.0*, July 1995, pp. 2-1 to 18-5

EXAMINER	DATE CONSIDERED

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(REV. 7-80) PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION
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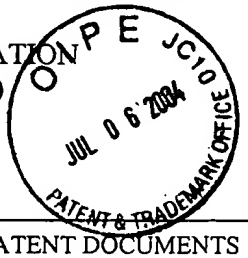

10488/11:1	09/885,448
APPLICANT: Kenneth J. Hines	
FILING DATE: June 19, 2002	GROUP: 2122

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	Richard J. Anderson, Paul Beame, Steve Burns, et al., "Model Checking Large Software Specifications," *Sigsoft '96 California, USA*, pp. 156-166.
	AS	Christopher B. Borchert, "Organization and Management of Distributed Execution Event Histories For Real-Time Debugging," *IEEE*. pp. 343-345.
	AT	Mariano P. Consens, Masum Z. Hasan, Alberto O. Mendelzon, "Visualizing and Querying Distributed Event Traces with Hy+," *Computer Systems Research Institute, University of Toronto*, June 1994, pp. 123-141.

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	AP							

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	AR	Wentong Cai, Wendy J. Milne and Stephen J. Turner, "Graphical Views of the Behavior of Parallel Programs," *Journal of Parallel and Distributed Computing*, June 18, 1993, No. 2, Orlando, FL, USA, pp. 223-230.
	AS	Matthew S. Jaffe, Nancy G. Leveson, Mats P.E. Heimdahl, et al., "Software Requirements Analysis for Real-Time Process-Control Systems," *8198 IEEE Transactions on Software Engineering*, March 17, 1991, No. 3, New York, US, pp. 241-257.
	AT	Thomas Kunz, David J. Taylor, and James P. Black, "Poet: Target-System-Independent Visualizations of Complex Distributed Executions, *IEEE*, 1997, pp. 452-461.

EXAMINER	DATE CONSIDERED

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10488/11:1	09/885,448
APPLICANT: Kenneth J. Hines	
FILING DATE: June 19, 2001	GROUP: 2122

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	AN							
	AO							
	AP							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	Doug Kimelman and Dror Zernik, "On-the-Fly Topological Sort – A Basis for Interactive Debugging and Live Visualization of Parallel Programs," *8398 ACM Sigplan Notices*, December 28, 1993, No. 12, New York, US, pp. 12-20.
	AS	Mikhail Auguston, "Building Program Behavior Models," *Dept. of Computer Science, New Mexico State University*, pp. 19-26.
	AT	Stephen Edwards, Luciano Lavagno, Edward A. Lee, et al., "Design of Embedded Systems: Formal Models, Validation, and Synthesis," *Proceedings of the IEEE*, Vol. 85, No. 3, March 1997, pp. 366-389.

EXAMINER	DATE CONSIDERED

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(REV. 7-80)

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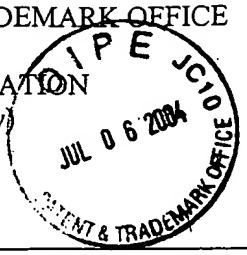
INFORMATION DISCLOSURE CITATION
(Uses several sheets if necessary)



10488/11:1	09/885,448
APPLICANT: Kenneth J. Hines	
FILING DATE: June 19, 2001	GROUP: 2122

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
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	AI						
	AJ						
	AK						

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO
	AL							
	AM							
	AN							
	AO							
	AP							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	Pai Chou, Ross Ortega, Ken Hines, et al., "IPChinook: An Integrated IP-based Design Framework for Distributed Embedded Systems," pp. 44-49.
	AS	Pai Chou, Ken Hines, Kurt Partridge and Gaetano Borriello, "Control Generation for Embedded Systems Based on Composition of Modal Processes," pp. 46-53.
	AT	Pai H. Chou and Gaetano Borriello, "Synthesis and Optimization of Coordination Controllers for Distributed Embedded Systems," pp. 410-415.

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformation with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.